Mahmet Borg Kurucu 21703404 a) 1 A - XII = 1 - X - 24 8 = (1-N) - 11-X 4 + 24 | 0 34 -8 0-11-1 = (1-X)[(9-X)(-11-X)+96] =(1-X)[-99-9X+11X+X7-96]=(1-X)[K2+2X-3] = (1-1)(1+3)(1-1)=0 1=-3 is eigen value 1=1, is eigen valle with multiplicity 2. with multiplicity 1. For  $\lambda = (: Solve (A-I)X = 0$ 3 TO 3 1 7 X3 = + X1 = S x2=+ SI=1(5)3+1) SHER) 5= { SC(10,00)+1(01311) SHE = spang viviz 3 is the cyanspace by 48 V2 , where 49 8 v2 are linearly indeposition where VI = XVI for KER









